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- 1 [National id card: the next generation: The US/Mexico border crossing card \(BCC\): a case study in biometric, machine-readable id](#)

Andrew Schulman

 April 2002 **Proceedings of the 12th annual conference on Computers, freedom and privacy**

 Full text available: [htm\(187.31 KB\)](#) Additional Information: [full citation](#), [index terms](#)


- 2 [Stateful distributed interposition](#)

John Reumann, Kang G. Shin

 February 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 1

 Full text available: [pdf\(833.84 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Interposition-based system enhancements for multitiered servers are difficult to build because important system context is typically lost at application and machine boundaries. For example, resource quotas and user identities do not propagate easily between cooperating services that execute on different hosts or that communicate with each other via intermediary services. Application-transparent system enhancement is difficult to achieve when such context information is obscured by complex service ...

Keywords: Distributed computing, component services, distributed context, multitiered services, operating systems, server consolidation

- 3 [Business-to-business interactions: issues and enabling technologies](#)

B. Medjahed, B. Benatallah, A. Bouguettaya, A. H. H. Ngu, A. K. Elmagarmid

 May 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 12 Issue 1

 Full text available: [pdf\(558.34 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)



Business-to-Business (B2B) technologies pre-date the Web. They have existed for at least as long as the Internet. B2B applications were among the first to take advantage of advances in computer networking. The Electronic Data Interchange (EDI) business standard is an illustration of such an early adoption of the advances in computer networking. The ubiquity and the affordability of the Web has made it possible for the masses of businesses to automate their B2B interactions. However, several issues ...

Keywords: B2B Interactions, Components, E-commerce, EDI, Web services, Workflows, XML

4 Industrial sessions: beyond relational tables: An ebXML infrastructure implementation through UDDI registries and RosettaNet PIPs

Asuman Dogac, Yusuf Tambag, Pinar Pembecioglu, Sait Pektas, Gokce Laleci, Gokhan Kurt, Serkan Toprak, Yildiray Kabak

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data**

Full text available:  [pdf\(1.25 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Today's Internet based businesses need a level of interoperability which will allow trading partners to seamlessly and dynamically come together and do business without ad hoc and proprietary integrations. Such a level of interoperability involves being able to find potential business partners, discovering their services and business processes, and conducting business "on the fly". This process of dynamic interoperation is only possible through standard B2B frameworks. Indeed a number of B2B ele ...

5 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available:  [pdf\(4.21 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

6 Ada-Java communication in ADEPT

Anthony Gargaro

November 1997 **Proceedings of the conference on TRI-Ada '97**

Full text available:  [pdf\(2.12 MB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

7 Astrolabe: A robust and scalable technology for distributed system monitoring, management, and data mining

Robbert Van Renesse, Kenneth P. Birman, Werner Vogels

May 2003 **ACM Transactions on Computer Systems (TOCS)**, Volume 21 Issue 2

Full text available:  [pdf\(341.62 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Scalable management and self-organizational capabilities are emerging as central requirements for a generation of large-scale, highly dynamic, distributed applications. We have developed an entirely new distributed information management system called Astrolabe. Astrolabe collects large-scale system state, permitting rapid updates and providing on-the-fly attribute aggregation. This latter capability permits an application to locate a resource, and also offers a scalable way to track sys ...

Keywords: Aggregation, epidemic protocols, failure detection, gossip, membership, publish-subscribe, scalability

8 Exchanging intensional XML data

Tova Milo, Serge Abiteboul, Bernd Amann, Omar Benjelloun, Fred Dang Ngoc
March 2005 **ACM Transactions on Database Systems (TODS)**, Volume 30 Issue 1

Full text available:  [pdf\(1.07 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

XML is becoming the universal format for data exchange between applications. Recently, the emergence of Web services as standard means of publishing and accessing data on the Web introduced a new class of XML documents, which we call *intensional* documents. These are XML documents where some of the data is given explicitly while other parts are defined only intensionally by means of embedded calls to Web services. When such documents are exchanged between applications, one has the choice of ...

Keywords: Data exchange, Web services, XML, intensional information, typing


9 Application performance and flexibility on exokernel systems

M. Frans Kaashoek, Dawson R. Engler, Gregory R. Ganger, Hector M. Briceño, Russell Hunt, David Mazières, Thomas Pinckney, Robert Grimm, John Jannotti, Kenneth Mackenzie
October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles**, Volume 31 Issue 5

Full text available:  [pdf\(2.39 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

10 Data access for the masses through OLE DB

José A. Blakeley
June 1996 **ACM SIGMOD Record , Proceedings of the 1996 ACM SIGMOD international conference on Management of data**, Volume 25 Issue 2

Full text available:  [pdf\(1.24 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents an overview of OLE DB, a set of interfaces being developed at Microsoft whose goal is to enable applications to have uniform access to data stored in DBMS and non-DBMS information containers. Applications will be able to take advantage of the benefits of database technology without having to transfer data from its place of origin to a DBMS. Our approach consists of defining an open, extensible Collection of interfaces that factor and encapsulate orthogonal, reusable portions ...

11 Protection and the control of information sharing in multics

Jerome H. Saltzer
July 1974 **Communications of the ACM**, Volume 17 Issue 7

Full text available:  [pdf\(1.75 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The design of mechanisms to control the sharing of information in the Multics system is described. Five design principles help provide insight into the tradeoffs among different possible designs. The key mechanisms described include access control lists, hierarchical control of access specifications, identification and authentication of users, and primary memory protection. The paper ends with a discussion of several known weaknesses in the current protection mechanism design.

Keywords: Multics, access control, authentication, computer utilities, descriptors, privacy, proprietary programs, protected subsystems, protection, security, time-sharing systems, virtual memory

12 [Data integration and sharing I: Exchanging intensional XML data](#)

Tova Milo, Serge Abiteboul, Bernd Amann, Omar Benjelloun, Fred Dang Ngoc

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data**Full text available: [pdf\(237.21 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

XML is becoming the universal format for data exchange between applications. Recently, the emergence of Web services as standard means of publishing and accessing data on the Web introduced a new class of XML documents, which we call *intensional* documents. These are XML documents where some of the data is given explicitly while other parts are defined only intensionally by means of embedded calls to Web services. When such documents are exchanged between applications, one has the choice to ...

13 [IP next generation overview](#)

Robert M. Hinden

June 1996 **Communications of the ACM**, Volume 39 Issue 6Full text available: [pdf\(610.92 KB\)](#)Additional Information: [full citation](#), [references](#), [index terms](#), [review](#)**14** [Computer security: A conceptual framework for testing biometric algorithms within operating systems' authentication](#)

Arslan Brömme, Marcel Kronberg, Oliver Ellenbeck, Oliver Kasch

March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**Full text available: [pdf\(675.28 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a conceptual framework for testing the implementation of biometric algorithms within Unix and Windows NT/2000 operating systems' login authentication. To support the analysis and evaluation of biometric algorithms, a data logging module will be used, enabling the collection of quantitative data, e.g. timestamps, biometric raw data, (pre)processed data, and return codes from each run of a biometric authentication. It is shown how biometric algorithms and a data logging module ...

Keywords: biometric authentication, evaluation, operating system, robustness, testing biometric algorithms

15 [Response to "Problems with DCE security services"](#)

Walter Tuvel

April 1996 **ACM SIGCOMM Computer Communication Review**, Volume 26 Issue 2Full text available: [pdf\(1.01 MB\)](#)Additional Information: [full citation](#), [index terms](#)**16** [Distributed VEEs: PDS: a virtual execution environment for software deployment](#)

Bowen Alpern, Joshua Auerbach, Vasanth Bala, Thomas Frauenhofer, Todd Mummert, Michael Pigott

June 2005 **Proceedings of the 1st ACM/USENIX international conference on Virtual execution environments**Full text available: [pdf\(299.26 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Progressive Deployment System (PDS) is a virtual execution environment and infrastructure designed specifically for deploying software, or "assets", on demand while enabling management from a central location. PDS intercepts a select subset of system

calls on the target machine to provide a partial virtualization at the operating system level. This enables an asset's install-time environment to be reproduced virtually while otherwise not isolating the asset from peer applications on the targ ...

Keywords: deployment, installation, management, streaming, virtualization

17 Recovery guarantees for Internet applications

Roger Barga, David Lomet, German Shegalov, Gerhard Weikum

August 2004 **ACM Transactions on Internet Technology (TOIT)**, Volume 4 Issue 3

Full text available:  [pdf\(997.52 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Internet-based e-services require application developers to deal explicitly with failures of the underlying software components, for example web servers, servlets, browser sessions, and so forth. This complicates application programming, and may expose failures to end users. This paper presents a framework for an application-independent infrastructure that provides recovery guarantees and masks almost all system failures, thus relieving the application programmer from having to deal with these f ...

Keywords: Exactly-once execution, application recovery, communication protocols, interaction contracts

18 Managing resources and services: Metis: lightweight, flexible, and Web-based workflow services for digital libraries

Kenneth M. Anderson, Aaron Andersen, Neet Wadhvani, Laura M. Bartolo

May 2003 **Proceedings of the 3rd ACM/IEEE-CS joint conference on Digital libraries**

Full text available:  [pdf\(154.93 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Metis project is developing workflow technology designed for use in digital libraries by avoiding the assumptions made by traditional workflow systems. In particular, digital libraries have highly distributed sets of stake-holders who nevertheless must work together to perform shared activities. Hence, traditional assumptions that all members of a workflow belong to the same organization, work in the same fashion, or have access to similar computing platforms are invalid. The Metis approach ...

19 Composing Web services on the Semantic Web

Brahim Medjahed, Athman Bouguettaya, Ahmed K. Elmagarmid

November 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 12 Issue 4

Full text available:  [pdf\(1.29 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Service composition is gaining momentum as the potential *silver bullet* for the envisioned *Semantic Web*. It purports to take the Web to unexplored efficiencies and provide a flexible approach for promoting all types of activities in tomorrow's Web. Applications expected to heavily take advantage of Web service composition include B2B E-commerce and E-government. To date, enabling composite services has largely been an ad hoc, time-consuming, and error-prone process involving r ...

Keywords: Ontology, Semantic Web, Service composition, Web services

20 Access control: First experiences using XACML for access control in distributed systems

Markus Lorch, Seth Proctor, Rebekah Lepro, Dennis Kafura, Sumit Shah

October 2003 Proceedings of the 2003 ACM workshop on XML securityFull text available:  [pdf \(459.30 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#), [terms](#), [review](#)

Authorization systems today are increasingly complex. They span domains of administration, rely on many different authentication sources, and manage permissions that can be as complex as the system itself. Worse still, while there are many standards that define authentication mechanisms, the standards that address authorization are less well defined and tend to work only within homogeneous systems. This paper presents XACML, a standard access control language, as one component of a distributed a ...

Keywords: access control decision, access control enforcement, authorization, distributed system security, policy language, policy management

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